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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
HELIUM ACTIVITY
HELIUM RESEARCH CENTER

INTERNAL REPORT

MEASUREMENT OF ATMOSPHERIC PRESSURE

WITH FORTIN BAROMETER, SERIAL No. 13346

BY

Ted C. Briggs

BRANCH Fundamental Research

PROJECT NO. 4330

DATE January 1965

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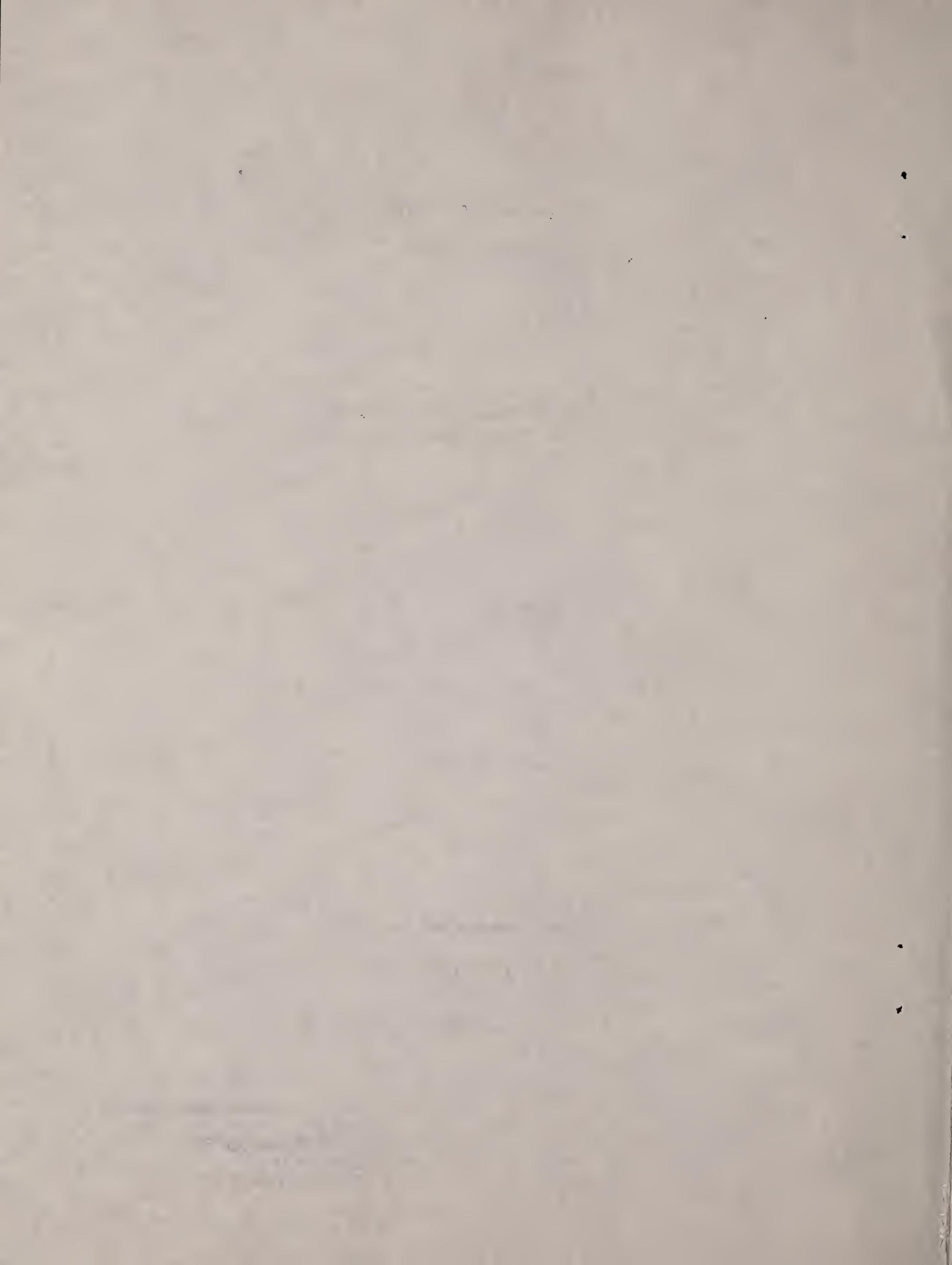
Ted C. Briggs

Branch of Fundamental Research

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MEASUREMENT OF ATMOSPHERIC PRESSURE
WITH FORTIN BAROMETER, SERIAL No. 13346

by

Ted C. Briggs^{1/}

ABSTRACT

This report contains tables to facilitate calculation of atmospheric pressure in millimeters of mercury from the observed scale reading of Fortin barometer, Serial No. 13346.

INTRODUCTION

The Thermodynamics section of the Helium Research Center recently purchased a Fortin type mercurial barometer for measurement of atmospheric pressure in the PVT laboratory.

The barometer was sent to the National Bureau of Standards in May 1964 for testing, and the barometer was returned to the Helium Research Center in December 1964.

Several corrections must be applied to the scale reading of a Fortin type barometer to obtain atmospheric pressure. The purpose of this report is to present correction tables to facilitate calculation of atmospheric pressure from the scale reading of barometer No.

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Work on manuscript completed January 1965.

13346. Barometer No. 13346 is equipped with dual scales. One scale is graduated in inches, and the other scale is graduated in millimeters. Also, the barometer has a thermometer graduated in degrees Fahrenheit and degrees Centigrade. Correction tables of this report are based upon use of the barometer millimeter scale and Centigrade scale readings.

For a detailed discussion of barometers and barometer corrections refer to National Bureau of Standards Monograph 8.^{2/}

2/ Brombokscher, W. G., D. P. Johnson, and J. L. Cross. Mercury Barometers and Manometers. National Bureau of Standards Monograph 8, May 20, 1960, 59 pp.

BAROMETER DESCRIPTION

The barometer description is as follows:

Type: Fortin

Manufacturer: Henry J. Green Instruments, Inc.,
Westbury, New York

Model No.: 16

Serial No.: 13346

Bore of tube: 0.6 inch

Dual scale reading ranges: 25.5 to 31.5 inches and
650 to 800 millimeters

Graduation interval: 0.05 inch and 1 millimeter

Least vernier division: 0.002 inch and 0.05 millimeter

Thermometer range: 5° to 120° F and -15° to 50° C

Thermometer interval: 1° F and 0.5° C

NATIONAL BUREAU OF STANDARDS TEST RESULTS^{3/}

3/ National Bureau of Standards Report of Calibration, Identification
No. P 7068, on file in the Helium Research Center Library.

Barometer Serial No. 13346 was compared from day to day at the National Bureau of Standards with an NBS standard mercury barometer at ambient atmospheric pressure. Atmospheric pressure ranged from 29.36 to 29.91 inches of mercury. Temperature during comparison ranged from 25.2° to 25.8° C. Readings were corrected for the value of gravity at Washington, D. C., and for temperature. Corrected readings were compared with the pressure as determined by an NBS standard barometer. A summary of the test results is given in table 1.

Based on the results of table 1, a calibration correction of -0.001 inch of mercury or +0.06 millimeter of mercury should be applied to the barometer English scale or metric scale readings, respectively, in addition to the temperature and gravity corrections.

TABLE 1. -Summary of dual scale test at about 25° C for barometer
No. 13346

Number of readings: 26

Number of days
on which readings
were made: 13

	<u>Inch Mercury</u>	<u>Millimeter Mercury</u>
Mean correction	-0.001	+0.06
Most positive correction	+0.003	+0.13
Most negative correction	-0.005	-0.03
Three times the standard deviation	+0.006	+0.12

TEMPERATURE AND GRAVITY CORRECTIONS

Fortin type barometers generally have scales which are graduated to be correct at 0° C. Atmospheric pressure is defined in terms of the height of a mercury column at 0° C. Since barometers are usually read at about 25° C, a temperature correction must be applied to correct the readings to standard conditions. For a Fortin barometer with a scale graduated to be correct at 0° C, the temperature correction is given by equation (1).

$$c_t = \frac{(s-m) t R_s}{1+mt} \quad (1)$$

The terms in equation (1) are:

c_t = temperature correction, mm

s = coefficient of linear expansion of the barometer scale, $^{\circ}\text{C}^{-1}$

m = mean coefficient of cubical expansion of mercury, $^{\circ}\text{C}^{-1}$

t = temperature, $^{\circ}\text{C}$

R_s = barometer scale reading, mm

The barometer reading corrected for temperature is expressed by equation (2).

$$R_t = R_s + c_t \quad (2)$$

The mean coefficient of cubical expansion of mercury is given by equation (3).

$$m \times 10^8 = 18144.01 + 0.7016 t + 0.0028625 t^2 + 0.000002617 t^3 \quad (3)$$

Commonly the scales of Fortin barometers are of brass, and the coefficient of linear expansion is generally assumed to be $18.4 \times 10^{-6} \text{ } ^{\circ}\text{C}^{-1}$.

Equation (1) was used to calculate barometer temperature corrections over the temperature range 20.1° to 30° C for various barometer scale readings. Temperature corrections are recorded in table 2.

Standard acceleration of gravity is assumed in the definitions of millimeters of mercury as a unit of pressure; therefore, barometer readings must be corrected for deviation of local acceleration of gravity from standard acceleration of gravity. Equation (4) is used to compute gravity corrections.

$$c_g = \frac{g_1 - g_s}{g_s} R_t \quad (4)$$

Terms in equation (4) are:

c_g = gravity correction, mm

g_1 = numerical value for local acceleration of gravity,
 cm/sec^2

g_s = numerical value for standard acceleration of gravity,
 cm/sec^2

R_t = barometer scale reading corrected for temperature
 effects, mm

Standard acceleration of gravity is 980.665 cm/sec^2 . A value of $979.4091 \text{ cm/sec}^2$ ^{4/} is used as the acceleration of gravity at the

4/ Dalton, B. J. Local Value of Acceleration of Gravity at the Helium Research Center. Helium Research Center Memorandum Report No. 43, April 1964, 13 pp.

barometer location. Gravity corrections were computed for each of the entries in table 2. Numerical values of the gravity corrections are recorded in table 3.

COMBINED BAROMETER CORRECTION

The final correction to be applied to a barometer reading is the calibration correction determined by the National Bureau of Standards. The calibration correction to be applied to the barometer millimeter scale reading, corrected for temperature and gravity effects, is +0.06 millimeter. Temperature, gravity, and calibration corrections are combined and recorded in table 4. To obtain atmospheric pressure in millimeters of mercury the appropriate correction from table 4 is subtracted from the barometer scale reading.

TABLE 2.- TEMPERATURE CORRECTION FOR FORTIN
BAROMETER WITH A BRASS SCALE

T, DEG C	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	21.0
P, MM										
651	-2.13	-2.14	-2.15	-2.16	-2.17	-2.18	-2.19	-2.20	-2.21	-2.22
652	-2.13	-2.14	-2.15	-2.16	-2.17	-2.18	-2.19	-2.20	-2.22	-2.23
653	-2.13	-2.14	-2.16	-2.17	-2.18	-2.19	-2.20	-2.21	-2.22	-2.23
654	-2.14	-2.15	-2.16	-2.17	-2.18	-2.19	-2.20	-2.21	-2.22	-2.23
655	-2.14	-2.15	-2.16	-2.17	-2.18	-2.19	-2.20	-2.22	-2.23	-2.24
656	-2.14	-2.15	-2.17	-2.18	-2.19	-2.20	-2.21	-2.22	-2.23	-2.24
657	-2.15	-2.16	-2.17	-2.18	-2.19	-2.20	-2.21	-2.22	-2.23	-2.24
658	-2.15	-2.16	-2.17	-2.18	-2.19	-2.20	-2.21	-2.23	-2.24	-2.25
659	-2.15	-2.16	-2.18	-2.19	-2.20	-2.21	-2.22	-2.23	-2.24	-2.25
660	-2.16	-2.17	-2.18	-2.19	-2.20	-2.21	-2.22	-2.23	-2.24	-2.25
661	-2.16	-2.17	-2.18	-2.19	-2.20	-2.21	-2.22	-2.24	-2.25	-2.26
662	-2.16	-2.17	-2.19	-2.20	-2.21	-2.22	-2.23	-2.24	-2.25	-2.26
663	-2.17	-2.18	-2.19	-2.20	-2.21	-2.22	-2.23	-2.24	-2.25	-2.26
664	-2.17	-2.18	-2.19	-2.20	-2.21	-2.22	-2.23	-2.25	-2.26	-2.27
665	-2.17	-2.18	-2.19	-2.21	-2.22	-2.23	-2.24	-2.25	-2.26	-2.27
666	-2.18	-2.19	-2.20	-2.21	-2.22	-2.23	-2.24	-2.25	-2.26	-2.27
667	-2.18	-2.19	-2.20	-2.21	-2.22	-2.23	-2.24	-2.26	-2.27	-2.28
668	-2.18	-2.19	-2.20	-2.22	-2.23	-2.24	-2.25	-2.26	-2.27	-2.28
669	-2.19	-2.20	-2.21	-2.22	-2.23	-2.24	-2.25	-2.26	-2.27	-2.28
670	-2.19	-2.20	-2.21	-2.22	-2.23	-2.24	-2.25	-2.27	-2.28	-2.29
671	-2.19	-2.20	-2.21	-2.23	-2.24	-2.25	-2.26	-2.27	-2.28	-2.29
672	-2.20	-2.21	-2.22	-2.23	-2.24	-2.25	-2.26	-2.27	-2.28	-2.29
673	-2.20	-2.21	-2.22	-2.23	-2.24	-2.25	-2.27	-2.28	-2.29	-2.30
674	-2.20	-2.21	-2.22	-2.24	-2.25	-2.26	-2.27	-2.28	-2.29	-2.30
675	-2.21	-2.22	-2.23	-2.24	-2.25	-2.26	-2.27	-2.28	-2.29	-2.30
676	-2.21	-2.22	-2.23	-2.24	-2.25	-2.26	-2.28	-2.29	-2.30	-2.31
677	-2.21	-2.22	-2.23	-2.25	-2.26	-2.27	-2.28	-2.29	-2.30	-2.31
678	-2.22	-2.23	-2.24	-2.25	-2.26	-2.27	-2.28	-2.29	-2.30	-2.31
679	-2.22	-2.23	-2.24	-2.25	-2.26	-2.27	-2.29	-2.30	-2.31	-2.32
680	-2.22	-2.23	-2.24	-2.26	-2.27	-2.28	-2.29	-2.30	-2.31	-2.32

TABLE 2.- TEMPERATURE CORRECTION FOR FORTIN
BAROMETER WITH A BRASS SCALE

T, DEG C	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	22.0
P, MM										
651	-2.23	-2.24	-2.25	-2.26	-2.28	-2.29	-2.30	-2.31	-2.32	-2.33
652	-2.24	-2.25	-2.26	-2.27	-2.28	-2.29	-2.30	-2.31	-2.32	-2.33
653	-2.24	-2.25	-2.26	-2.27	-2.28	-2.29	-2.30	-2.31	-2.32	-2.34
654	-2.24	-2.25	-2.26	-2.28	-2.29	-2.30	-2.31	-2.32	-2.33	-2.34
655	-2.25	-2.26	-2.27	-2.28	-2.29	-2.30	-2.31	-2.32	-2.33	-2.34
656	-2.25	-2.26	-2.27	-2.28	-2.29	-2.30	-2.31	-2.32	-2.34	-2.35
657	-2.25	-2.26	-2.28	-2.29	-2.30	-2.31	-2.32	-2.33	-2.34	-2.35
658	-2.26	-2.27	-2.28	-2.29	-2.30	-2.31	-2.32	-2.33	-2.34	-2.35
659	-2.26	-2.27	-2.28	-2.29	-2.30	-2.31	-2.32	-2.34	-2.35	-2.36
660	-2.26	-2.27	-2.29	-2.30	-2.31	-2.32	-2.33	-2.34	-2.35	-2.36
661	-2.27	-2.28	-2.29	-2.30	-2.31	-2.32	-2.33	-2.34	-2.35	-2.36
662	-2.27	-2.28	-2.29	-2.30	-2.31	-2.32	-2.34	-2.35	-2.36	-2.37
663	-2.27	-2.29	-2.30	-2.31	-2.32	-2.33	-2.34	-2.35	-2.36	-2.37
664	-2.28	-2.29	-2.30	-2.31	-2.32	-2.33	-2.34	-2.35	-2.36	-2.37
665	-2.28	-2.29	-2.30	-2.31	-2.32	-2.34	-2.35	-2.36	-2.37	-2.38
666	-2.28	-2.30	-2.31	-2.32	-2.33	-2.34	-2.35	-2.36	-2.37	-2.38
667	-2.29	-2.30	-2.31	-2.32	-2.33	-2.34	-2.35	-2.36	-2.37	-2.39
668	-2.29	-2.30	-2.31	-2.32	-2.33	-2.35	-2.36	-2.37	-2.38	-2.39
669	-2.29	-2.31	-2.32	-2.33	-2.34	-2.35	-2.36	-2.37	-2.38	-2.39
670	-2.30	-2.31	-2.32	-2.33	-2.34	-2.35	-2.36	-2.37	-2.39	-2.40
671	-2.30	-2.31	-2.32	-2.33	-2.35	-2.36	-2.37	-2.38	-2.39	-2.40
672	-2.31	-2.32	-2.33	-2.34	-2.35	-2.36	-2.37	-2.38	-2.39	-2.40
673	-2.31	-2.32	-2.33	-2.34	-2.35	-2.36	-2.37	-2.39	-2.40	-2.41
674	-2.31	-2.32	-2.33	-2.34	-2.36	-2.37	-2.38	-2.39	-2.40	-2.41
675	-2.32	-2.33	-2.34	-2.35	-2.36	-2.37	-2.38	-2.39	-2.40	-2.41
676	-2.32	-2.33	-2.34	-2.35	-2.36	-2.37	-2.38	-2.40	-2.41	-2.42
677	-2.32	-2.33	-2.34	-2.36	-2.37	-2.38	-2.39	-2.40	-2.41	-2.42
678	-2.33	-2.34	-2.35	-2.36	-2.37	-2.38	-2.39	-2.40	-2.41	-2.42
679	-2.33	-2.34	-2.35	-2.36	-2.37	-2.38	-2.40	-2.41	-2.42	-2.43
680	-2.33	-2.34	-2.35	-2.37	-2.38	-2.39	-2.40	-2.41	-2.42	-2.43

TABLE 2.- TEMPERATURE CORRECTION FOR FORTIN
BAROMETER WITH A BRASS SCALE

T, DEG C	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	23.0
P, MM										
651	-2.34	-2.35	-2.36	-2.37	-2.38	-2.39	-2.40	-2.41	-2.42	-2.43
652	-2.34	-2.35	-2.36	-2.37	-2.38	-2.40	-2.41	-2.42	-2.43	-2.44
653	-2.35	-2.36	-2.37	-2.38	-2.39	-2.40	-2.41	-2.42	-2.43	-2.44
654	-2.35	-2.36	-2.37	-2.38	-2.39	-2.40	-2.41	-2.42	-2.43	-2.44
655	-2.35	-2.36	-2.37	-2.38	-2.40	-2.41	-2.42	-2.43	-2.44	-2.45
656	-2.36	-2.37	-2.38	-2.39	-2.40	-2.41	-2.42	-2.43	-2.44	-2.45
657	-2.36	-2.37	-2.38	-2.39	-2.40	-2.41	-2.42	-2.43	-2.45	-2.46
658	-2.36	-2.37	-2.39	-2.40	-2.41	-2.42	-2.43	-2.44	-2.45	-2.46
659	-2.37	-2.38	-2.39	-2.40	-2.41	-2.42	-2.43	-2.44	-2.45	-2.46
660	-2.37	-2.38	-2.39	-2.40	-2.41	-2.42	-2.44	-2.45	-2.46	-2.47
661	-2.37	-2.39	-2.40	-2.41	-2.42	-2.43	-2.44	-2.45	-2.46	-2.47
662	-2.38	-2.39	-2.40	-2.41	-2.42	-2.43	-2.44	-2.45	-2.46	-2.47
663	-2.38	-2.39	-2.40	-2.41	-2.42	-2.44	-2.45	-2.46	-2.47	-2.48
664	-2.39	-2.40	-2.41	-2.42	-2.43	-2.44	-2.45	-2.46	-2.47	-2.48
665	-2.39	-2.40	-2.41	-2.42	-2.43	-2.44	-2.45	-2.46	-2.48	-2.49
666	-2.39	-2.40	-2.41	-2.42	-2.44	-2.45	-2.46	-2.47	-2.48	-2.49
667	-2.40	-2.41	-2.42	-2.43	-2.44	-2.45	-2.46	-2.47	-2.48	-2.49
668	-2.40	-2.41	-2.42	-2.43	-2.44	-2.45	-2.46	-2.48	-2.49	-2.50
669	-2.40	-2.41	-2.43	-2.44	-2.45	-2.46	-2.47	-2.48	-2.49	-2.50
670	-2.41	-2.42	-2.43	-2.44	-2.45	-2.46	-2.47	-2.48	-2.49	-2.50
671	-2.41	-2.42	-2.43	-2.44	-2.45	-2.46	-2.48	-2.49	-2.50	-2.51
672	-2.41	-2.43	-2.44	-2.45	-2.46	-2.47	-2.48	-2.49	-2.50	-2.51
673	-2.42	-2.43	-2.44	-2.45	-2.46	-2.47	-2.48	-2.49	-2.51	-2.52
674	-2.42	-2.43	-2.44	-2.45	-2.47	-2.48	-2.49	-2.50	-2.51	-2.52
675	-2.42	-2.44	-2.45	-2.46	-2.47	-2.48	-2.49	-2.50	-2.51	-2.52
676	-2.43	-2.44	-2.45	-2.46	-2.47	-2.48	-2.49	-2.51	-2.52	-2.53
677	-2.43	-2.44	-2.45	-2.47	-2.48	-2.49	-2.50	-2.51	-2.52	-2.53
678	-2.44	-2.45	-2.46	-2.47	-2.48	-2.49	-2.50	-2.51	-2.52	-2.53
679	-2.44	-2.45	-2.46	-2.47	-2.48	-2.49	-2.51	-2.52	-2.53	-2.54
680	-2.44	-2.45	-2.46	-2.48	-2.49	-2.50	-2.51	-2.52	-2.53	-2.54

TABLE 2.- TEMPERATURE CORRECTION FOR FORTIN
BAROMETER WITH A BRASS SCALE

T, DEG C→	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	24.0
P, MM										
651	-2.44	-2.45	-2.47	-2.48	-2.49	-2.50	-2.51	-2.52	-2.53	-2.54
652	-2.45	-2.46	-2.47	-2.48	-2.49	-2.50	-2.51	-2.52	-2.53	-2.54
653	-2.45	-2.46	-2.47	-2.48	-2.49	-2.50	-2.52	-2.53	-2.54	-2.55
654	-2.46	-2.47	-2.48	-2.49	-2.50	-2.51	-2.52	-2.53	-2.54	-2.55
655	-2.46	-2.47	-2.48	-2.49	-2.50	-2.51	-2.52	-2.53	-2.54	-2.55
656	-2.46	-2.47	-2.48	-2.49	-2.51	-2.52	-2.53	-2.54	-2.55	-2.56
657	-2.47	-2.48	-2.49	-2.50	-2.51	-2.52	-2.53	-2.54	-2.55	-2.56
658	-2.47	-2.48	-2.49	-2.50	-2.51	-2.52	-2.53	-2.55	-2.56	-2.57
659	-2.47	-2.48	-2.50	-2.51	-2.52	-2.53	-2.54	-2.55	-2.56	-2.57
660	-2.48	-2.49	-2.50	-2.51	-2.52	-2.53	-2.54	-2.55	-2.56	-2.57
661	-2.48	-2.49	-2.50	-2.51	-2.52	-2.54	-2.55	-2.56	-2.57	-2.58
662	-2.49	-2.50	-2.51	-2.52	-2.53	-2.54	-2.55	-2.56	-2.57	-2.58
663	-2.49	-2.50	-2.51	-2.52	-2.53	-2.54	-2.55	-2.56	-2.58	-2.59
664	-2.49	-2.50	-2.51	-2.53	-2.54	-2.55	-2.56	-2.57	-2.58	-2.59
665	-2.50	-2.51	-2.52	-2.53	-2.54	-2.55	-2.56	-2.57	-2.58	-2.59
666	-2.50	-2.51	-2.52	-2.53	-2.54	-2.55	-2.57	-2.58	-2.59	-2.60
667	-2.50	-2.52	-2.53	-2.54	-2.55	-2.56	-2.57	-2.58	-2.59	-2.60
668	-2.51	-2.52	-2.53	-2.54	-2.55	-2.56	-2.57	-2.58	-2.59	-2.61
669	-2.51	-2.52	-2.53	-2.54	-2.56	-2.57	-2.58	-2.59	-2.60	-2.61
670	-2.52	-2.53	-2.54	-2.55	-2.56	-2.57	-2.58	-2.59	-2.60	-2.61
671	-2.52	-2.53	-2.54	-2.55	-2.56	-2.57	-2.58	-2.60	-2.61	-2.62
672	-2.52	-2.53	-2.54	-2.56	-2.57	-2.58	-2.59	-2.60	-2.61	-2.62
673	-2.53	-2.54	-2.55	-2.56	-2.57	-2.58	-2.59	-2.60	-2.61	-2.62
674	-2.53	-2.54	-2.55	-2.56	-2.57	-2.59	-2.60	-2.61	-2.62	-2.63
675	-2.53	-2.55	-2.56	-2.57	-2.58	-2.59	-2.60	-2.61	-2.62	-2.63
676	-2.54	-2.55	-2.56	-2.57	-2.58	-2.59	-2.60	-2.61	-2.63	-2.64
677	-2.54	-2.55	-2.56	-2.57	-2.59	-2.60	-2.61	-2.62	-2.63	-2.64
678	-2.55	-2.56	-2.57	-2.58	-2.59	-2.60	-2.61	-2.62	-2.63	-2.64
679	-2.55	-2.56	-2.57	-2.58	-2.59	-2.60	-2.62	-2.63	-2.64	-2.65
680	-2.55	-2.56	-2.58	-2.59	-2.60	-2.61	-2.62	-2.63	-2.64	-2.65

TABLE 2.- TEMPERATURE CORRECTION FOR FORTIN
BAROMETER WITH A BRASS SCALE

T, DEG C+	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	25.0
P, MM										
651	-2.55	-2.56	-2.57	-2.58	-2.59	-2.60	-2.61	-2.62	-2.63	-2.64
652	-2.55	-2.56	-2.57	-2.59	-2.60	-2.61	-2.62	-2.63	-2.64	-2.65
653	-2.56	-2.57	-2.58	-2.59	-2.60	-2.61	-2.62	-2.63	-2.64	-2.65
654	-2.56	-2.57	-2.58	-2.59	-2.60	-2.61	-2.63	-2.64	-2.65	-2.66
655	-2.57	-2.58	-2.59	-2.60	-2.61	-2.62	-2.63	-2.64	-2.65	-2.66
656	-2.57	-2.58	-2.59	-2.60	-2.61	-2.62	-2.63	-2.64	-2.65	-2.66
657	-2.57	-2.58	-2.59	-2.61	-2.62	-2.63	-2.64	-2.65	-2.66	-2.67
658	-2.58	-2.59	-2.60	-2.61	-2.62	-2.63	-2.64	-2.65	-2.66	-2.67
659	-2.58	-2.59	-2.60	-2.61	-2.62	-2.63	-2.65	-2.66	-2.67	-2.68
660	-2.58	-2.60	-2.61	-2.62	-2.63	-2.64	-2.65	-2.66	-2.67	-2.68
661	-2.59	-2.60	-2.61	-2.62	-2.63	-2.64	-2.65	-2.66	-2.67	-2.69
662	-2.59	-2.60	-2.61	-2.62	-2.64	-2.65	-2.66	-2.67	-2.68	-2.69
663	-2.60	-2.61	-2.62	-2.63	-2.64	-2.65	-2.66	-2.67	-2.68	-2.69
664	-2.60	-2.61	-2.62	-2.63	-2.64	-2.65	-2.67	-2.68	-2.69	-2.70
665	-2.60	-2.62	-2.63	-2.64	-2.65	-2.66	-2.67	-2.68	-2.69	-2.70
666	-2.61	-2.62	-2.63	-2.64	-2.65	-2.66	-2.67	-2.68	-2.69	-2.71
667	-2.61	-2.62	-2.63	-2.64	-2.66	-2.67	-2.68	-2.69	-2.70	-2.71
668	-2.62	-2.63	-2.64	-2.65	-2.66	-2.67	-2.68	-2.69	-2.70	-2.71
669	-2.62	-2.63	-2.64	-2.65	-2.66	-2.67	-2.69	-2.70	-2.71	-2.72
670	-2.62	-2.63	-2.65	-2.66	-2.67	-2.68	-2.69	-2.70	-2.71	-2.72
671	-2.63	-2.64	-2.65	-2.66	-2.67	-2.68	-2.69	-2.70	-2.72	-2.73
672	-2.63	-2.64	-2.65	-2.66	-2.68	-2.69	-2.70	-2.71	-2.72	-2.73
673	-2.64	-2.65	-2.66	-2.67	-2.68	-2.69	-2.70	-2.71	-2.72	-2.73
674	-2.64	-2.65	-2.66	-2.67	-2.68	-2.69	-2.71	-2.72	-2.73	-2.74
675	-2.64	-2.65	-2.67	-2.68	-2.69	-2.70	-2.71	-2.72	-2.73	-2.74
676	-2.65	-2.66	-2.67	-2.68	-2.69	-2.70	-2.71	-2.72	-2.74	-2.75
677	-2.65	-2.66	-2.67	-2.68	-2.70	-2.71	-2.72	-2.73	-2.74	-2.75
678	-2.66	-2.67	-2.68	-2.69	-2.70	-2.71	-2.72	-2.73	-2.74	-2.75
679	-2.66	-2.67	-2.68	-2.69	-2.70	-2.71	-2.73	-2.74	-2.75	-2.76
680	-2.66	-2.67	-2.69	-2.70	-2.71	-2.72	-2.73	-2.74	-2.75	-2.76

TABLE 2.- TEMPERATURE CORRECTION FOR FORTIN
BAROMETER WITH A BRASS SCALE

T, DEG C→	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	26.0
P, MM										
651	-2.66	-2.67	-2.68	-2.69	-2.70	-2.71	-2.72	-2.73	-2.74	-2.75
652	-2.66	-2.67	-2.68	-2.69	-2.70	-2.71	-2.72	-2.73	-2.74	-2.75
653	-2.66	-2.67	-2.68	-2.70	-2.71	-2.72	-2.73	-2.74	-2.75	-2.76
654	-2.67	-2.68	-2.69	-2.70	-2.71	-2.72	-2.73	-2.74	-2.75	-2.76
655	-2.67	-2.68	-2.69	-2.70	-2.71	-2.72	-2.74	-2.75	-2.76	-2.77
656	-2.68	-2.69	-2.70	-2.71	-2.72	-2.73	-2.74	-2.75	-2.76	-2.77
657	-2.68	-2.69	-2.70	-2.71	-2.72	-2.73	-2.74	-2.75	-2.76	-2.78
658	-2.68	-2.69	-2.71	-2.72	-2.73	-2.74	-2.75	-2.76	-2.77	-2.78
659	-2.69	-2.70	-2.71	-2.72	-2.73	-2.74	-2.75	-2.76	-2.77	-2.78
660	-2.69	-2.70	-2.71	-2.72	-2.73	-2.75	-2.76	-2.77	-2.78	-2.79
661	-2.70	-2.71	-2.72	-2.73	-2.74	-2.75	-2.76	-2.77	-2.78	-2.79
662	-2.70	-2.71	-2.72	-2.73	-2.74	-2.75	-2.76	-2.78	-2.79	-2.80
663	-2.70	-2.71	-2.73	-2.74	-2.75	-2.76	-2.77	-2.78	-2.79	-2.80
664	-2.71	-2.72	-2.73	-2.74	-2.75	-2.76	-2.77	-2.78	-2.79	-2.80
665	-2.71	-2.72	-2.73	-2.74	-2.76	-2.77	-2.78	-2.79	-2.80	-2.81
666	-2.72	-2.73	-2.74	-2.75	-2.76	-2.77	-2.78	-2.79	-2.80	-2.81
667	-2.72	-2.73	-2.74	-2.75	-2.76	-2.77	-2.79	-2.80	-2.81	-2.82
668	-2.72	-2.74	-2.75	-2.76	-2.77	-2.78	-2.79	-2.80	-2.81	-2.82
669	-2.73	-2.74	-2.75	-2.76	-2.77	-2.78	-2.79	-2.80	-2.82	-2.83
670	-2.73	-2.74	-2.75	-2.77	-2.78	-2.79	-2.80	-2.81	-2.82	-2.83
671	-2.74	-2.75	-2.76	-2.77	-2.78	-2.79	-2.80	-2.81	-2.82	-2.83
672	-2.74	-2.75	-2.76	-2.77	-2.78	-2.80	-2.81	-2.82	-2.83	-2.84
673	-2.74	-2.76	-2.77	-2.78	-2.79	-2.80	-2.81	-2.82	-2.83	-2.84
674	-2.75	-2.76	-2.77	-2.78	-2.79	-2.80	-2.81	-2.83	-2.84	-2.85
675	-2.75	-2.76	-2.77	-2.79	-2.80	-2.81	-2.82	-2.83	-2.84	-2.85
676	-2.76	-2.77	-2.78	-2.79	-2.80	-2.81	-2.82	-2.83	-2.84	-2.86
677	-2.76	-2.77	-2.78	-2.79	-2.81	-2.82	-2.83	-2.84	-2.85	-2.86
678	-2.77	-2.78	-2.79	-2.80	-2.81	-2.82	-2.83	-2.84	-2.85	-2.86
679	-2.77	-2.78	-2.79	-2.80	-2.81	-2.82	-2.84	-2.85	-2.86	-2.87
680	-2.77	-2.78	-2.80	-2.81	-2.82	-2.83	-2.84	-2.85	-2.86	-2.87

TABLE 2.- TEMPERATURE CORRECTION FOR FORTIN
BAROMETER WITH A BRASS SCALE

T, DEG C	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	27.0
P, MM										
651	-2.76	-2.77	-2.78	-2.79	-2.80	-2.81	-2.82	-2.83	-2.84	-2.86
652	-2.76	-2.78	-2.79	-2.80	-2.81	-2.82	-2.83	-2.84	-2.85	-2.86
653	-2.77	-2.78	-2.79	-2.80	-2.81	-2.82	-2.83	-2.84	-2.85	-2.86
654	-2.77	-2.78	-2.79	-2.81	-2.82	-2.83	-2.84	-2.85	-2.86	-2.87
655	-2.78	-2.79	-2.80	-2.81	-2.82	-2.83	-2.84	-2.85	-2.86	-2.87
656	-2.78	-2.79	-2.80	-2.81	-2.82	-2.83	-2.85	-2.86	-2.87	-2.88
657	-2.79	-2.80	-2.81	-2.82	-2.83	-2.84	-2.85	-2.86	-2.87	-2.88
658	-2.79	-2.80	-2.81	-2.82	-2.83	-2.84	-2.85	-2.86	-2.88	-2.89
659	-2.79	-2.81	-2.82	-2.83	-2.84	-2.85	-2.86	-2.87	-2.88	-2.89
660	-2.80	-2.81	-2.82	-2.83	-2.84	-2.85	-2.86	-2.87	-2.88	-2.89
661	-2.80	-2.81	-2.82	-2.84	-2.85	-2.86	-2.87	-2.88	-2.89	-2.90
662	-2.81	-2.82	-2.83	-2.84	-2.85	-2.86	-2.87	-2.88	-2.89	-2.90
663	-2.81	-2.82	-2.83	-2.84	-2.85	-2.87	-2.88	-2.89	-2.90	-2.91
664	-2.82	-2.83	-2.84	-2.85	-2.86	-2.87	-2.88	-2.89	-2.90	-2.91
665	-2.82	-2.83	-2.84	-2.85	-2.86	-2.87	-2.88	-2.90	-2.91	-2.92
666	-2.82	-2.83	-2.85	-2.86	-2.87	-2.88	-2.89	-2.90	-2.91	-2.92
667	-2.83	-2.84	-2.85	-2.86	-2.87	-2.88	-2.89	-2.90	-2.91	-2.93
668	-2.83	-2.84	-2.85	-2.87	-2.88	-2.89	-2.90	-2.91	-2.92	-2.93
669	-2.84	-2.85	-2.86	-2.87	-2.88	-2.89	-2.90	-2.91	-2.92	-2.93
670	-2.84	-2.85	-2.86	-2.87	-2.88	-2.90	-2.91	-2.92	-2.93	-2.94
671	-2.85	-2.86	-2.87	-2.88	-2.89	-2.90	-2.91	-2.92	-2.93	-2.94
672	-2.85	-2.86	-2.87	-2.88	-2.89	-2.90	-2.91	-2.93	-2.94	-2.95
673	-2.85	-2.86	-2.88	-2.89	-2.90	-2.91	-2.92	-2.93	-2.94	-2.95
674	-2.86	-2.87	-2.88	-2.89	-2.90	-2.91	-2.92	-2.93	-2.95	-2.96
675	-2.86	-2.87	-2.88	-2.90	-2.91	-2.92	-2.93	-2.94	-2.95	-2.96
676	-2.87	-2.88	-2.89	-2.90	-2.91	-2.92	-2.93	-2.94	-2.95	-2.97
677	-2.87	-2.88	-2.89	-2.90	-2.91	-2.93	-2.94	-2.95	-2.96	-2.97
678	-2.88	-2.89	-2.90	-2.91	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97
679	-2.88	-2.89	-2.90	-2.91	-2.92	-2.93	-2.95	-2.96	-2.97	-2.98
680	-2.88	-2.89	-2.91	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98

TABLE 2.- TEMPERATURE CORRECTION FOR FORTIN
BAROMETER WITH A BRASS SCALE

T, DEG C→	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	28.0
P, MM										
651	-2.87	-2.88	-2.89	-2.90	-2.91	-2.92	-2.93	-2.94	-2.95	-2.96
652	-2.87	-2.88	-2.89	-2.90	-2.91	-2.92	-2.93	-2.94	-2.95	-2.97
653	-2.87	-2.89	-2.90	-2.91	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97
654	-2.88	-2.89	-2.90	-2.91	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97
655	-2.88	-2.89	-2.90	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98
656	-2.89	-2.90	-2.91	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98
657	-2.89	-2.90	-2.91	-2.92	-2.93	-2.95	-2.96	-2.97	-2.98	-2.99
658	-2.90	-2.91	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99
659	-2.90	-2.91	-2.92	-2.93	-2.94	-2.95	-2.97	-2.98	-2.99	-3.00
660	-2.91	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00
661	-2.91	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98	-3.00	-3.01
662	-2.91	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01
663	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00	-3.02
664	-2.92	-2.93	-2.94	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02
665	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02
666	-2.93	-2.94	-2.95	-2.96	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03
667	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03
668	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99	-3.01	-3.02	-3.03	-3.04
669	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04
670	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01	-3.03	-3.04	-3.05
671	-2.95	-2.96	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05
672	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.05	-3.06
673	-2.96	-2.97	-2.98	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06
674	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.07
675	-2.97	-2.98	-2.99	-3.00	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07
676	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07
677	-2.98	-2.99	-3.00	-3.01	-3.02	-3.04	-3.05	-3.06	-3.07	-3.08
678	-2.98	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08
679	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.06	-3.07	-3.08	-3.09
680	-2.99	-3.00	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09

TABLE 2.- TEMPERATURE CORRECTION FOR FORTIN
BAROMETER WITH A BRASS SCALE

T, DEG C→	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	29.0
P, MM										
651	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.05	-3.06	-3.07
652	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07
653	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.07	-3.08
654	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08
655	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.09
656	-2.99	-3.00	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09
657	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09
658	-3.00	-3.01	-3.02	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10
659	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10
660	-3.01	-3.02	-3.03	-3.04	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11
661	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11
662	-3.02	-3.03	-3.04	-3.05	-3.06	-3.08	-3.09	-3.10	-3.11	-3.12
663	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12
664	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.10	-3.11	-3.12	-3.13
665	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13
666	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.12	-3.13	-3.14
667	-3.04	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14
668	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12	-3.14	-3.15
669	-3.05	-3.06	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15
670	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.16
671	-3.06	-3.07	-3.08	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16
672	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.17
673	-3.07	-3.08	-3.09	-3.10	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17
674	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17
675	-3.08	-3.09	-3.10	-3.11	-3.12	-3.14	-3.15	-3.16	-3.17	-3.18
676	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18
677	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.16	-3.17	-3.18	-3.19
678	-3.09	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19
679	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.17	-3.18	-3.19	-3.20
680	-3.10	-3.11	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20

TABLE 2.- TEMPERATURE CORRECTION FOR FORTIN
BAROMETER WITH A BRASS SCALE

T, DEG C+	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	30.0
P, MM										
651	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17
652	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.16	-3.17	-3.18
653	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18
654	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.18	-3.19
655	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19
656	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.19	-3.20
657	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20
658	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.21
659	-3.11	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21
660	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.22
661	-3.12	-3.13	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22
662	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.23
663	-3.13	-3.14	-3.15	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23
664	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23
665	-3.14	-3.15	-3.16	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24
666	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24
667	-3.15	-3.16	-3.17	-3.18	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25
668	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25
669	-3.16	-3.17	-3.18	-3.19	-3.21	-3.22	-3.23	-3.24	-3.25	-3.26
670	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25	-3.26
671	-3.17	-3.18	-3.19	-3.20	-3.21	-3.23	-3.24	-3.25	-3.26	-3.27
672	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25	-3.26	-3.27
673	-3.18	-3.19	-3.20	-3.21	-3.22	-3.24	-3.25	-3.26	-3.27	-3.28
674	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25	-3.26	-3.27	-3.28
675	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24	-3.26	-3.27	-3.28	-3.29
676	-3.19	-3.21	-3.22	-3.23	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29
677	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25	-3.27	-3.28	-3.29	-3.30
678	-3.20	-3.22	-3.23	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30
679	-3.21	-3.22	-3.23	-3.24	-3.25	-3.26	-3.27	-3.29	-3.30	-3.31
680	-3.21	-3.22	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31

TABLE 3.- BAROMETER GRAVITY CORRECTION FOR LOCAL ACCELERATION
OF GRAVITY, 979.4091 CM PER SEC PER SEC

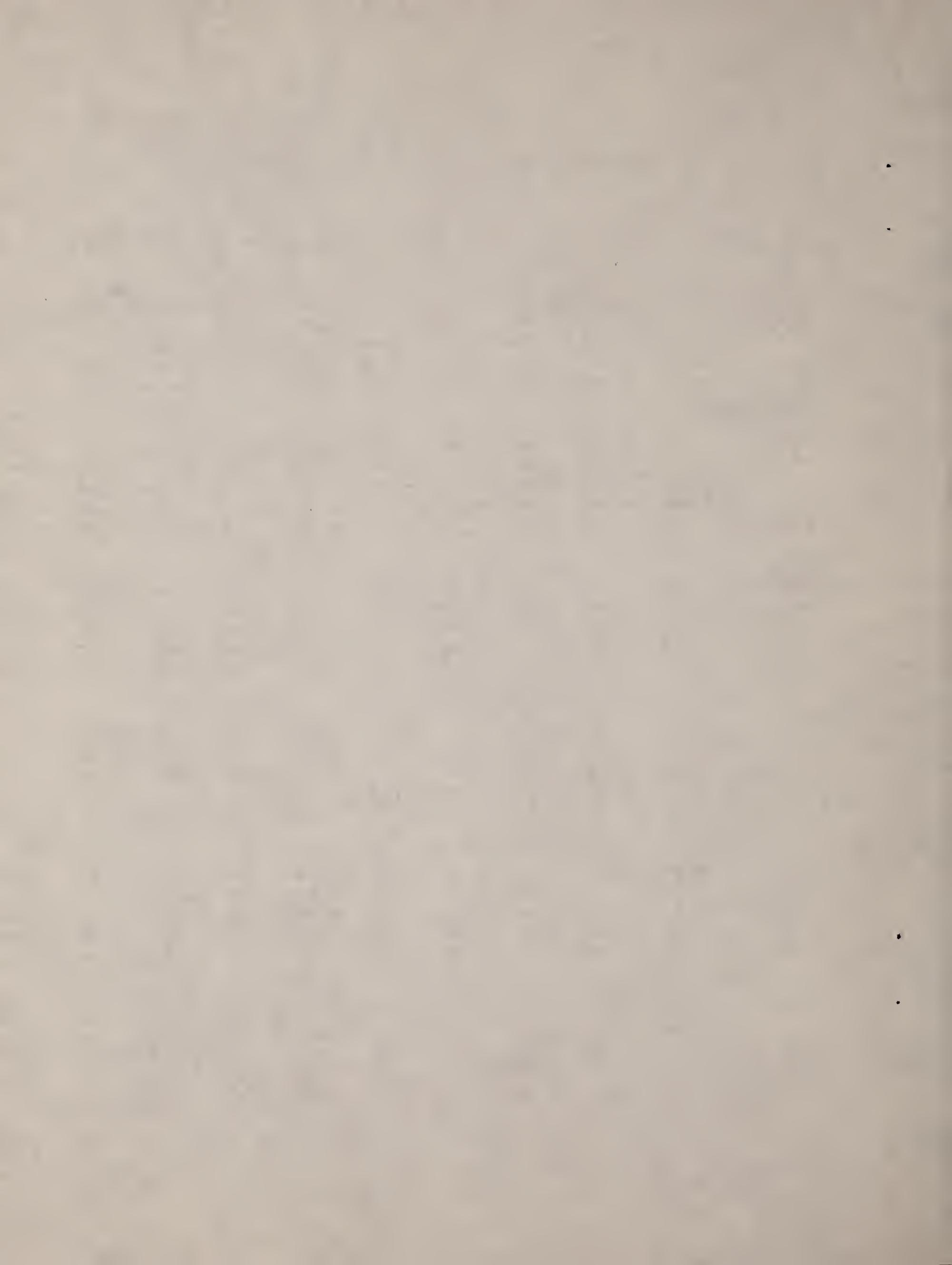


TABLE 3.- BAROMETER GRAVITY CORRECTION FOR LOCAL ACCELERATION
OF GRAVITY, 979.4091 CM PER SEC PER SEC

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OF GRAVITY, 979.4091 CM PER SEC PER SEC

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OF GRAVITY, 979.4091 CM PER SEC PER SEC

TABLE 3.- BAROMETER GRAVITY CORRECTION FOR LOCAL ACCELERATION
OF GRAVITY, 979.4091 CM PER SEC PER SEC

TABLE 4.- COMBINED TEMPERATURE, GRAVITY, AND
CALIBRATION CORRECTION FOR BAROMETER NO. 13346

T, DEG C	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	21.0
P, MM										
651	-2.90	-2.91	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99
652	-2.90	-2.91	-2.92	-2.93	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00
653	-2.91	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00
654	-2.91	-2.92	-2.93	-2.94	-2.95	-2.97	-2.98	-2.99	-3.00	-3.01
655	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01
656	-2.92	-2.93	-2.94	-2.95	-2.96	-2.97	-2.99	-3.00	-3.01	-3.02
657	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02
658	-2.93	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99	-3.01	-3.02	-3.03
659	-2.93	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03
660	-2.94	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01	-3.03	-3.04
661	-2.94	-2.95	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04
662	-2.95	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.05
663	-2.95	-2.96	-2.97	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05
664	-2.96	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05
665	-2.96	-2.97	-2.98	-2.99	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06
666	-2.97	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06
667	-2.97	-2.98	-2.99	-3.00	-3.01	-3.03	-3.04	-3.05	-3.06	-3.07
668	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07
669	-2.98	-2.99	-3.00	-3.01	-3.02	-3.03	-3.05	-3.06	-3.07	-3.08
670	-2.98	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08
671	-2.99	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.07	-3.08	-3.09
672	-2.99	-3.00	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09
673	-3.00	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.09	-3.10
674	-3.00	-3.01	-3.02	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10
675	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.10	-3.11
676	-3.01	-3.02	-3.03	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11
677	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.12
678	-3.02	-3.03	-3.04	-3.05	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12
679	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12
680	-3.03	-3.04	-3.05	-3.06	-3.07	-3.09	-3.10	-3.11	-3.12	-3.13

TABLE 4.- COMBINED TEMPERATURE, GRAVITY, AND
CALIBRATION CORRECTION FOR BAROMETER NO. 13346

T, DEG C	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	22.0
P, MM										
651	-3.00	-3.01	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10
652	-3.01	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10
653	-3.01	-3.02	-3.03	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11
654	-3.02	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11
655	-3.02	-3.03	-3.04	-3.05	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12
656	-3.03	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12
657	-3.03	-3.04	-3.05	-3.06	-3.07	-3.09	-3.10	-3.11	-3.12	-3.13
658	-3.04	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13
659	-3.04	-3.05	-3.06	-3.07	-3.08	-3.10	-3.11	-3.12	-3.13	-3.14
660	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14
661	-3.05	-3.06	-3.07	-3.08	-3.09	-3.10	-3.12	-3.13	-3.14	-3.15
662	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15
663	-3.06	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12	-3.14	-3.15	-3.16
664	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16
665	-3.07	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13	-3.15	-3.16	-3.17
666	-3.07	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17
667	-3.08	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.17	-3.18
668	-3.08	-3.09	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18
669	-3.09	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.18	-3.19
670	-3.09	-3.10	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19
671	-3.10	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.19	-3.20
672	-3.10	-3.11	-3.12	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20
673	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.21
674	-3.11	-3.12	-3.13	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21
675	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.22
676	-3.12	-3.13	-3.14	-3.15	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22
677	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.23
678	-3.13	-3.14	-3.15	-3.16	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23
679	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23
680	-3.14	-3.15	-3.16	-3.17	-3.18	-3.20	-3.21	-3.22	-3.23	-3.24

TABLE 4.- COMBINED TEMPERATURE, GRAVITY, AND
CALIBRATION CORRECTION FOR BAROMETER NO. 13346

T, DEG C→	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	23.0
P, MM										
651	-3.11	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20
652	-3.11	-3.12	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21
653	-3.12	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21
654	-3.12	-3.13	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22
655	-3.13	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22
656	-3.13	-3.14	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23
657	-3.14	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23
658	-3.14	-3.15	-3.16	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24
659	-3.15	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24
660	-3.15	-3.16	-3.17	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25
661	-3.16	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25
662	-3.16	-3.17	-3.18	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25	-3.26
663	-3.17	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25	-3.26
664	-3.17	-3.18	-3.19	-3.20	-3.22	-3.23	-3.24	-3.25	-3.26	-3.27
665	-3.18	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25	-3.26	-3.27
666	-3.18	-3.19	-3.20	-3.21	-3.23	-3.24	-3.25	-3.26	-3.27	-3.28
667	-3.19	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25	-3.26	-3.27	-3.28
668	-3.19	-3.20	-3.21	-3.22	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29
669	-3.20	-3.21	-3.22	-3.23	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29
670	-3.20	-3.21	-3.22	-3.23	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30
671	-3.21	-3.22	-3.23	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30
672	-3.21	-3.22	-3.23	-3.24	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31
673	-3.22	-3.23	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31
674	-3.22	-3.23	-3.24	-3.25	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32
675	-3.23	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32
676	-3.23	-3.24	-3.25	-3.26	-3.27	-3.29	-3.30	-3.31	-3.32	-3.33
677	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32	-3.33
678	-3.24	-3.25	-3.26	-3.27	-3.28	-3.30	-3.31	-3.32	-3.33	-3.34
679	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32	-3.33	-3.34
680	-3.25	-3.26	-3.27	-3.28	-3.29	-3.31	-3.32	-3.33	-3.34	-3.35

TABLE 4.- COMBINED TEMPERATURE, GRAVITY, AND
CALIBRATION CORRECTION FOR BAROMETER NO. 13346

T, DEG C	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	24.0
P, MM										
651	-3.21	-3.23	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31
652	-3.22	-3.23	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31
653	-3.22	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32
654	-3.23	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31	-3.33
655	-3.23	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32	-3.33
656	-3.24	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32	-3.34
657	-3.24	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32	-3.33	-3.34
658	-3.25	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32	-3.34	-3.35
659	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32	-3.33	-3.34	-3.35
660	-3.26	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32	-3.33	-3.35	-3.36
661	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32	-3.33	-3.34	-3.35	-3.36
662	-3.27	-3.28	-3.29	-3.30	-3.31	-3.32	-3.33	-3.35	-3.36	-3.37
663	-3.28	-3.29	-3.30	-3.31	-3.32	-3.33	-3.34	-3.35	-3.36	-3.37
664	-3.28	-3.29	-3.30	-3.31	-3.32	-3.33	-3.34	-3.36	-3.37	-3.38
665	-3.29	-3.30	-3.31	-3.32	-3.33	-3.34	-3.35	-3.36	-3.37	-3.38
666	-3.29	-3.30	-3.31	-3.32	-3.33	-3.34	-3.35	-3.37	-3.38	-3.39
667	-3.30	-3.31	-3.32	-3.33	-3.34	-3.35	-3.36	-3.37	-3.38	-3.39
668	-3.30	-3.31	-3.32	-3.33	-3.34	-3.35	-3.37	-3.38	-3.39	-3.40
669	-3.31	-3.32	-3.33	-3.34	-3.35	-3.36	-3.37	-3.38	-3.39	-3.40
670	-3.31	-3.32	-3.33	-3.34	-3.35	-3.36	-3.38	-3.39	-3.40	-3.41
671	-3.32	-3.33	-3.34	-3.35	-3.36	-3.37	-3.38	-3.39	-3.40	-3.41
672	-3.32	-3.33	-3.34	-3.35	-3.36	-3.37	-3.39	-3.40	-3.41	-3.42
673	-3.33	-3.34	-3.35	-3.36	-3.37	-3.38	-3.39	-3.40	-3.41	-3.42
674	-3.33	-3.34	-3.35	-3.36	-3.37	-3.39	-3.40	-3.41	-3.42	-3.43
675	-3.34	-3.35	-3.36	-3.37	-3.38	-3.39	-3.40	-3.41	-3.42	-3.43
676	-3.34	-3.35	-3.36	-3.37	-3.38	-3.40	-3.41	-3.42	-3.43	-3.44
677	-3.35	-3.36	-3.37	-3.38	-3.39	-3.40	-3.41	-3.42	-3.43	-3.44
678	-3.35	-3.36	-3.37	-3.38	-3.39	-3.41	-3.42	-3.43	-3.44	-3.45
679	-3.36	-3.37	-3.38	-3.39	-3.40	-3.41	-3.42	-3.43	-3.44	-3.45
680	-3.36	-3.37	-3.38	-3.39	-3.40	-3.42	-3.43	-3.44	-3.45	-3.46

TABLE 4.- COMBINED TEMPERATURE, GRAVITY, AND
CALIBRATION CORRECTION FOR BAROMETER NO. 13346

T, DEG C	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	25.0
P, MM										
651	-3.32	-3.33	-3.34	-3.35	-3.36	-3.37	-3.38	-3.39	-3.40	-3.41
652	-3.33	-3.34	-3.35	-3.36	-3.37	-3.38	-3.39	-3.40	-3.41	-3.42
653	-3.33	-3.34	-3.35	-3.36	-3.37	-3.38	-3.39	-3.40	-3.42	-3.43
654	-3.34	-3.35	-3.36	-3.37	-3.38	-3.39	-3.40	-3.41	-3.42	-3.43
655	-3.34	-3.35	-3.36	-3.37	-3.38	-3.39	-3.40	-3.42	-3.43	-3.44
656	-3.35	-3.36	-3.37	-3.38	-3.39	-3.40	-3.41	-3.42	-3.43	-3.44
657	-3.35	-3.36	-3.37	-3.38	-3.39	-3.40	-3.42	-3.43	-3.44	-3.45
658	-3.36	-3.37	-3.38	-3.39	-3.40	-3.41	-3.42	-3.43	-3.44	-3.45
659	-3.36	-3.37	-3.38	-3.39	-3.40	-3.42	-3.43	-3.44	-3.45	-3.46
660	-3.37	-3.38	-3.39	-3.40	-3.41	-3.42	-3.43	-3.44	-3.45	-3.46
661	-3.37	-3.38	-3.39	-3.40	-3.41	-3.43	-3.44	-3.45	-3.46	-3.47
662	-3.38	-3.39	-3.40	-3.41	-3.42	-3.43	-3.44	-3.45	-3.46	-3.47
663	-3.38	-3.39	-3.40	-3.41	-3.43	-3.44	-3.45	-3.46	-3.47	-3.48
664	-3.39	-3.40	-3.41	-3.42	-3.43	-3.44	-3.45	-3.46	-3.47	-3.48
665	-3.39	-3.40	-3.41	-3.43	-3.44	-3.45	-3.46	-3.47	-3.48	-3.49
666	-3.40	-3.41	-3.42	-3.43	-3.44	-3.45	-3.46	-3.47	-3.48	-3.50
667	-3.40	-3.41	-3.42	-3.44	-3.45	-3.46	-3.47	-3.48	-3.49	-3.50
668	-3.41	-3.42	-3.43	-3.44	-3.45	-3.46	-3.47	-3.48	-3.49	-3.51
669	-3.41	-3.42	-3.44	-3.45	-3.46	-3.47	-3.48	-3.49	-3.50	-3.51
670	-3.42	-3.43	-3.44	-3.45	-3.46	-3.47	-3.48	-3.49	-3.51	-3.52
671	-3.42	-3.43	-3.45	-3.46	-3.47	-3.48	-3.49	-3.50	-3.51	-3.52
672	-3.43	-3.44	-3.45	-3.46	-3.47	-3.48	-3.49	-3.51	-3.52	-3.53
673	-3.43	-3.45	-3.46	-3.47	-3.48	-3.49	-3.50	-3.51	-3.52	-3.53
674	-3.44	-3.45	-3.46	-3.47	-3.48	-3.49	-3.51	-3.52	-3.53	-3.54
675	-3.44	-3.46	-3.47	-3.48	-3.49	-3.50	-3.51	-3.52	-3.53	-3.54
676	-3.45	-3.46	-3.47	-3.48	-3.49	-3.50	-3.52	-3.53	-3.54	-3.55
677	-3.46	-3.47	-3.48	-3.49	-3.50	-3.51	-3.52	-3.53	-3.54	-3.55
678	-3.46	-3.47	-3.48	-3.49	-3.50	-3.52	-3.53	-3.54	-3.55	-3.56
679	-3.47	-3.48	-3.49	-3.50	-3.51	-3.52	-3.53	-3.54	-3.55	-3.56
680	-3.47	-3.48	-3.49	-3.50	-3.51	-3.53	-3.54	-3.55	-3.56	-3.57

and the corresponding values of the χ^2 and χ^2_{red} are given in Table 1.

Table 1. The values of χ^2 and χ^2_{red} for the best-fitting models.

Model	χ^2	χ^2_{red}	$\chi^2_{\text{red}}/\chi^2$
1	10.0	2.5	0.25
2	10.0	2.5	0.25
3	10.0	2.5	0.25
4	10.0	2.5	0.25
5	10.0	2.5	0.25
6	10.0	2.5	0.25
7	10.0	2.5	0.25
8	10.0	2.5	0.25
9	10.0	2.5	0.25
10	10.0	2.5	0.25
11	10.0	2.5	0.25
12	10.0	2.5	0.25
13	10.0	2.5	0.25
14	10.0	2.5	0.25
15	10.0	2.5	0.25
16	10.0	2.5	0.25
17	10.0	2.5	0.25
18	10.0	2.5	0.25
19	10.0	2.5	0.25
20	10.0	2.5	0.25
21	10.0	2.5	0.25
22	10.0	2.5	0.25
23	10.0	2.5	0.25
24	10.0	2.5	0.25
25	10.0	2.5	0.25
26	10.0	2.5	0.25
27	10.0	2.5	0.25
28	10.0	2.5	0.25
29	10.0	2.5	0.25
30	10.0	2.5	0.25
31	10.0	2.5	0.25
32	10.0	2.5	0.25
33	10.0	2.5	0.25
34	10.0	2.5	0.25
35	10.0	2.5	0.25
36	10.0	2.5	0.25
37	10.0	2.5	0.25
38	10.0	2.5	0.25
39	10.0	2.5	0.25
40	10.0	2.5	0.25
41	10.0	2.5	0.25
42	10.0	2.5	0.25
43	10.0	2.5	0.25
44	10.0	2.5	0.25
45	10.0	2.5	0.25
46	10.0	2.5	0.25
47	10.0	2.5	0.25
48	10.0	2.5	0.25
49	10.0	2.5	0.25
50	10.0	2.5	0.25
51	10.0	2.5	0.25
52	10.0	2.5	0.25
53	10.0	2.5	0.25
54	10.0	2.5	0.25
55	10.0	2.5	0.25
56	10.0	2.5	0.25
57	10.0	2.5	0.25
58	10.0	2.5	0.25
59	10.0	2.5	0.25
60	10.0	2.5	0.25
61	10.0	2.5	0.25
62	10.0	2.5	0.25
63	10.0	2.5	0.25
64	10.0	2.5	0.25
65	10.0	2.5	0.25
66	10.0	2.5	0.25
67	10.0	2.5	0.25
68	10.0	2.5	0.25
69	10.0	2.5	0.25
70	10.0	2.5	0.25
71	10.0	2.5	0.25
72	10.0	2.5	0.25
73	10.0	2.5	0.25
74	10.0	2.5	0.25
75	10.0	2.5	0.25
76	10.0	2.5	0.25
77	10.0	2.5	0.25
78	10.0	2.5	0.25
79	10.0	2.5	0.25
80	10.0	2.5	0.25
81	10.0	2.5	0.25
82	10.0	2.5	0.25
83	10.0	2.5	0.25
84	10.0	2.5	0.25
85	10.0	2.5	0.25
86	10.0	2.5	0.25
87	10.0	2.5	0.25
88	10.0	2.5	0.25
89	10.0	2.5	0.25
90	10.0	2.5	0.25
91	10.0	2.5	0.25
92	10.0	2.5	0.25
93	10.0	2.5	0.25
94	10.0	2.5	0.25
95	10.0	2.5	0.25
96	10.0	2.5	0.25
97	10.0	2.5	0.25
98	10.0	2.5	0.25
99	10.0	2.5	0.25
100	10.0	2.5	0.25
101	10.0	2.5	0.25
102	10.0	2.5	0.25
103	10.0	2.5	0.25
104	10.0	2.5	0.25
105	10.0	2.5	0.25
106	10.0	2.5	0.25
107	10.0	2.5	0.25
108	10.0	2.5	0.25
109	10.0	2.5	0.25
110	10.0	2.5	0.25
111	10.0	2.5	0.25
112	10.0	2.5	0.25
113	10.0	2.5	0.25
114	10.0	2.5	0.25
115	10.0	2.5	0.25
116	10.0	2.5	0.25
117	10.0	2.5	0.25
118	10.0	2.5	0.25
119	10.0	2.5	0.25
120	10.0	2.5	0.25
121	10.0	2.5	0.25
122	10.0	2.5	0.25
123	10.0	2.5	0.25
124	10.0	2.5	0.25
125	10.0	2.5	0.25
126	10.0	2.5	0.25
127	10.0	2.5	0.25
128	10.0	2.5	0.25
129	10.0	2.5	0.25
130	10.0	2.5	0.25
131	10.0	2.5	0.25
132	10.0	2.5	0.25
133	10.0	2.5	0.25
134	10.0	2.5	0.25
135	10.0	2.5	0.25
136	10.0	2.5	0.25
137	10.0	2.5	0.25
138	10.0	2.5	0.25
139	10.0	2.5	0.25
140	10.0	2.5	0.25
141	10.0	2.5	0.25
142	10.0	2.5	0.25
143	10.0	2.5	0.25
144	10.0	2.5	0.25
145	10.0	2.5	0.25
146	10.0	2.5	0.25
147	10.0	2.5	0.25
148	10.0	2.5	0.25
149	10.0	2.5	0.25
150	10.0	2.5	0.25
151	10.0	2.5	0.25
152	10.0	2.5	0.25
153	10.0	2.5	0.25
154	10.0	2.5	0.25
155	10.0	2.5	0.25
156	10.0	2.5	0.25
157	10.0	2.5	0.25
158	10.0	2.5	0.25
159	10.0	2.5	0.25
160	10.0	2.5	0.25
161	10.0	2.5	0.25
162	10.0	2.5	0.25
163	10.0	2.5	0.25
164	10.0	2.5	0.25
165	10.0	2.5	0.25
166	10.0	2.5	0.25
167	10.0	2.5	0.25
168	10.0	2.5	0.25
169	10.0	2.5	0.25
170	10.0	2.5	0.25
171	10.0	2.5	0.25
172	10.0	2.5	0.25
173	10.0	2.5	0.25
174	10.0	2.5	0.25
175	10.0	2.5	0.25
176	10.0	2.5	0.25
177	10.0	2.5	0.25
178	10.0	2.5	0.25
179	10.0	2.5	0.25
180	10.0	2.5	0.25
181	10.0	2.5	0.25
182	10.0	2.5	0.25
183	10.0	2.5	0.25
184	10.0	2.5	0.25
185	10.0	2.5	0.25
186	10.0	2.5	0.25
187	10.0	2.5	0.25
188	10.0	2.5	0.25
189	10.0	2.5	0.25
190	10.0	2.5	0.25
191	10.0	2.5	0.25
192	10.0	2.5	0.25
193	10.0	2.5	0.25
194	10.0	2.5	0.25
195	10.0	2.5	0.25
196	10.0	2.5	0.25
197	10.0	2.5	0.25
198	10.0	2.5	0.25
199	10.0	2.5	0.25
200	10.0	2.5	0.25
201	10.0	2.5	0.25
202	10.0	2.5	0.25
203	10.0	2.5	0.25
204	10.0	2.5	0.25
205	10.0	2.5	0.25
206	10.0	2.5	0.25
207	10.0	2.5	0.25
208	10.0	2.5	0.25
209	10.0	2.5	0.25
210	10.0	2.5	0.25
211	10.0	2.5	0.25
212	10.0	2.5	0.25
213	10.0	2.5	0.25
214	10.0	2.5	0.25
215	10.0	2.5	0.25
216	10.0	2.5	0.25
217	10.0	2.5	0.25
218	10.0	2.5	0.25
219	10.0	2.5	0.25
220	10.0	2.5	0.25
221	10.0	2.5	0.25
222	10.0	2.5	0.25
223	10.0	2.5	0.25
224	10.0	2.5	0.25
225	10.0	2.	

TABLE 4.- COMBINED TEMPERATURE, GRAVITY, AND
CALIBRATION CORRECTION FOR BAROMETER NO. 13346

T, DEG C	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	26.0
P, MM										
651	-3.43	-3.44	-3.45	-3.46	-3.47	-3.48	-3.49	-3.50	-3.51	-3.52
652	-3.43	-3.44	-3.45	-3.46	-3.47	-3.48	-3.49	-3.50	-3.52	-3.53
653	-3.44	-3.45	-3.46	-3.47	-3.48	-3.49	-3.50	-3.51	-3.52	-3.53
654	-3.44	-3.45	-3.46	-3.47	-3.48	-3.49	-3.51	-3.52	-3.53	-3.54
655	-3.45	-3.46	-3.47	-3.48	-3.49	-3.50	-3.51	-3.52	-3.53	-3.54
656	-3.45	-3.46	-3.47	-3.48	-3.49	-3.51	-3.52	-3.53	-3.54	-3.55
657	-3.46	-3.47	-3.48	-3.49	-3.50	-3.51	-3.52	-3.53	-3.54	-3.55
658	-3.46	-3.47	-3.48	-3.49	-3.51	-3.52	-3.53	-3.54	-3.55	-3.56
659	-3.47	-3.48	-3.49	-3.50	-3.51	-3.52	-3.53	-3.54	-3.55	-3.56
660	-3.47	-3.48	-3.50	-3.51	-3.52	-3.53	-3.54	-3.55	-3.56	-3.57
661	-3.48	-3.49	-3.50	-3.51	-3.52	-3.53	-3.54	-3.55	-3.56	-3.58
662	-3.48	-3.50	-3.51	-3.52	-3.53	-3.54	-3.55	-3.56	-3.57	-3.58
663	-3.49	-3.50	-3.51	-3.52	-3.53	-3.54	-3.55	-3.56	-3.58	-3.59
664	-3.50	-3.51	-3.52	-3.53	-3.54	-3.55	-3.56	-3.57	-3.58	-3.59
665	-3.50	-3.51	-3.52	-3.53	-3.54	-3.55	-3.56	-3.58	-3.59	-3.60
666	-3.51	-3.52	-3.53	-3.54	-3.55	-3.56	-3.57	-3.58	-3.59	-3.60
667	-3.51	-3.52	-3.53	-3.54	-3.55	-3.57	-3.58	-3.59	-3.60	-3.61
668	-3.52	-3.53	-3.54	-3.55	-3.56	-3.57	-3.58	-3.59	-3.60	-3.61
669	-3.52	-3.53	-3.54	-3.55	-3.57	-3.58	-3.59	-3.60	-3.61	-3.62
670	-3.53	-3.54	-3.55	-3.56	-3.57	-3.58	-3.59	-3.60	-3.61	-3.62
671	-3.53	-3.54	-3.55	-3.57	-3.58	-3.59	-3.60	-3.61	-3.62	-3.63
672	-3.54	-3.55	-3.56	-3.57	-3.58	-3.59	-3.60	-3.61	-3.62	-3.64
673	-3.54	-3.55	-3.57	-3.58	-3.59	-3.60	-3.61	-3.62	-3.63	-3.64
674	-3.55	-3.56	-3.57	-3.58	-3.59	-3.60	-3.61	-3.62	-3.64	-3.65
675	-3.55	-3.56	-3.58	-3.59	-3.60	-3.61	-3.62	-3.63	-3.64	-3.65
676	-3.56	-3.57	-3.58	-3.59	-3.60	-3.61	-3.62	-3.64	-3.65	-3.66
677	-3.56	-3.58	-3.59	-3.60	-3.61	-3.62	-3.63	-3.64	-3.65	-3.66
678	-3.57	-3.58	-3.59	-3.60	-3.61	-3.62	-3.64	-3.65	-3.66	-3.67
679	-3.58	-3.59	-3.60	-3.61	-3.62	-3.63	-3.64	-3.65	-3.66	-3.67
680	-3.58	-3.59	-3.60	-3.61	-3.62	-3.64	-3.65	-3.66	-3.67	-3.68

TABLE 4.- COMBINED TEMPERATURE, GRAVITY, AND
CALIBRATION CORRECTION FOR BAROMETER NO. 13346

T, DEG C	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	27.0
P, MM										
651	-3.53	-3.54	-3.55	-3.56	-3.57	-3.58	-3.59	-3.60	-3.61	-3.63
652	-3.54	-3.55	-3.56	-3.57	-3.58	-3.59	-3.60	-3.61	-3.62	-3.63
653	-3.54	-3.55	-3.56	-3.57	-3.58	-3.59	-3.61	-3.62	-3.63	-3.64
654	-3.55	-3.56	-3.57	-3.58	-3.59	-3.60	-3.61	-3.62	-3.63	-3.64
655	-3.55	-3.56	-3.57	-3.58	-3.60	-3.61	-3.62	-3.63	-3.64	-3.65
656	-3.56	-3.57	-3.58	-3.59	-3.60	-3.61	-3.62	-3.63	-3.64	-3.65
657	-3.56	-3.57	-3.59	-3.60	-3.61	-3.62	-3.63	-3.64	-3.65	-3.66
658	-3.57	-3.58	-3.59	-3.60	-3.61	-3.62	-3.63	-3.64	-3.65	-3.67
659	-3.57	-3.59	-3.60	-3.61	-3.62	-3.63	-3.64	-3.65	-3.66	-3.67
660	-3.58	-3.59	-3.60	-3.61	-3.62	-3.63	-3.64	-3.66	-3.67	-3.68
661	-3.59	-3.60	-3.61	-3.62	-3.63	-3.64	-3.65	-3.66	-3.67	-3.68
662	-3.59	-3.60	-3.61	-3.62	-3.63	-3.64	-3.66	-3.67	-3.68	-3.69
663	-3.60	-3.61	-3.62	-3.63	-3.64	-3.65	-3.66	-3.67	-3.68	-3.69
664	-3.60	-3.61	-3.62	-3.63	-3.65	-3.66	-3.67	-3.68	-3.69	-3.70
665	-3.61	-3.62	-3.63	-3.64	-3.65	-3.66	-3.67	-3.68	-3.69	-3.70
666	-3.61	-3.62	-3.64	-3.65	-3.66	-3.67	-3.68	-3.69	-3.70	-3.71
667	-3.62	-3.63	-3.64	-3.65	-3.66	-3.67	-3.68	-3.69	-3.71	-3.72
668	-3.62	-3.64	-3.65	-3.66	-3.67	-3.68	-3.69	-3.70	-3.71	-3.72
669	-3.63	-3.64	-3.65	-3.66	-3.67	-3.68	-3.69	-3.71	-3.72	-3.73
670	-3.64	-3.65	-3.66	-3.67	-3.68	-3.69	-3.70	-3.71	-3.72	-3.73
671	-3.64	-3.65	-3.66	-3.67	-3.68	-3.70	-3.71	-3.72	-3.73	-3.74
672	-3.65	-3.66	-3.67	-3.68	-3.69	-3.70	-3.71	-3.72	-3.73	-3.74
673	-3.65	-3.66	-3.67	-3.68	-3.70	-3.71	-3.72	-3.73	-3.74	-3.75
674	-3.66	-3.67	-3.68	-3.69	-3.70	-3.71	-3.72	-3.73	-3.74	-3.76
675	-3.66	-3.67	-3.68	-3.70	-3.71	-3.72	-3.73	-3.74	-3.75	-3.76
676	-3.67	-3.68	-3.69	-3.70	-3.71	-3.72	-3.73	-3.75	-3.76	-3.77
677	-3.67	-3.69	-3.70	-3.71	-3.72	-3.73	-3.74	-3.75	-3.76	-3.77
678	-3.68	-3.69	-3.70	-3.71	-3.72	-3.73	-3.75	-3.76	-3.77	-3.78
679	-3.69	-3.70	-3.71	-3.72	-3.73	-3.74	-3.75	-3.76	-3.77	-3.78
680	-3.69	-3.70	-3.71	-3.72	-3.73	-3.75	-3.76	-3.77	-3.78	-3.79

TABLE 4.- COMBINED TEMPERATURE, GRAVITY, AND
CALIBRATION CORRECTION FOR BAROMETER NO. 13346

T, DEG C	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	28.0
P, MM										
651	-3.64	-3.65	-3.66	-3.67	-3.68	-3.69	-3.70	-3.71	-3.72	-3.73
652	-3.64	-3.65	-3.66	-3.67	-3.68	-3.69	-3.70	-3.72	-3.73	-3.74
653	-3.65	-3.66	-3.67	-3.68	-3.69	-3.70	-3.71	-3.72	-3.73	-3.74
654	-3.65	-3.66	-3.67	-3.68	-3.70	-3.71	-3.72	-3.73	-3.74	-3.75
655	-3.66	-3.67	-3.68	-3.69	-3.70	-3.71	-3.72	-3.73	-3.74	-3.75
656	-3.66	-3.68	-3.69	-3.70	-3.71	-3.72	-3.73	-3.74	-3.75	-3.76
657	-3.67	-3.68	-3.69	-3.70	-3.71	-3.72	-3.73	-3.74	-3.76	-3.77
658	-3.68	-3.69	-3.70	-3.71	-3.72	-3.73	-3.74	-3.75	-3.76	-3.77
659	-3.68	-3.69	-3.70	-3.71	-3.72	-3.73	-3.75	-3.76	-3.77	-3.78
660	-3.69	-3.70	-3.71	-3.72	-3.73	-3.74	-3.75	-3.76	-3.77	-3.78
661	-3.69	-3.70	-3.71	-3.72	-3.74	-3.75	-3.76	-3.77	-3.78	-3.79
662	-3.70	-3.71	-3.72	-3.73	-3.74	-3.75	-3.76	-3.77	-3.78	-3.79
663	-3.70	-3.71	-3.73	-3.74	-3.75	-3.76	-3.77	-3.78	-3.79	-3.80
664	-3.71	-3.72	-3.73	-3.74	-3.75	-3.76	-3.77	-3.78	-3.80	-3.81
665	-3.72	-3.73	-3.74	-3.75	-3.76	-3.77	-3.78	-3.79	-3.80	-3.81
666	-3.72	-3.73	-3.74	-3.75	-3.76	-3.78	-3.79	-3.80	-3.81	-3.82
667	-3.73	-3.74	-3.75	-3.76	-3.77	-3.78	-3.79	-3.80	-3.81	-3.82
668	-3.73	-3.74	-3.75	-3.76	-3.78	-3.79	-3.80	-3.81	-3.82	-3.83
669	-3.74	-3.75	-3.76	-3.77	-3.78	-3.79	-3.80	-3.81	-3.82	-3.84
670	-3.74	-3.75	-3.77	-3.78	-3.79	-3.80	-3.81	-3.82	-3.83	-3.84
671	-3.75	-3.76	-3.77	-3.78	-3.79	-3.80	-3.81	-3.83	-3.84	-3.85
672	-3.76	-3.77	-3.78	-3.79	-3.80	-3.81	-3.82	-3.83	-3.84	-3.85
673	-3.76	-3.77	-3.78	-3.79	-3.80	-3.82	-3.83	-3.84	-3.85	-3.86
674	-3.77	-3.78	-3.79	-3.80	-3.81	-3.82	-3.83	-3.84	-3.85	-3.86
675	-3.77	-3.78	-3.79	-3.81	-3.82	-3.83	-3.84	-3.85	-3.86	-3.87
676	-3.78	-3.79	-3.80	-3.81	-3.82	-3.83	-3.84	-3.85	-3.87	-3.88
677	-3.78	-3.79	-3.81	-3.82	-3.83	-3.84	-3.85	-3.86	-3.87	-3.88
678	-3.79	-3.80	-3.81	-3.82	-3.83	-3.84	-3.86	-3.87	-3.88	-3.89
679	-3.80	-3.81	-3.82	-3.83	-3.84	-3.85	-3.86	-3.87	-3.88	-3.89
680	-3.80	-3.81	-3.82	-3.83	-3.84	-3.86	-3.87	-3.88	-3.89	-3.90

TABLE 4.- COMBINED TEMPERATURE, GRAVITY, AND
CALIBRATION CORRECTION FOR BAROMETER NO. 13346

T, DEG C	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	29.0
P, MM										
651	-3.74	-3.75	-3.76	-3.77	-3.78	-3.79	-3.80	-3.81	-3.83	-3.84
652	-3.75	-3.76	-3.77	-3.78	-3.79	-3.80	-3.81	-3.82	-3.83	-3.84
653	-3.75	-3.76	-3.77	-3.78	-3.80	-3.81	-3.82	-3.83	-3.84	-3.85
654	-3.76	-3.77	-3.78	-3.79	-3.80	-3.81	-3.82	-3.83	-3.84	-3.85
655	-3.76	-3.78	-3.79	-3.80	-3.81	-3.82	-3.83	-3.84	-3.85	-3.86
656	-3.77	-3.78	-3.79	-3.80	-3.81	-3.82	-3.83	-3.84	-3.86	-3.87
657	-3.78	-3.79	-3.80	-3.81	-3.82	-3.83	-3.84	-3.85	-3.86	-3.87
658	-3.78	-3.79	-3.80	-3.81	-3.82	-3.84	-3.85	-3.86	-3.87	-3.88
659	-3.79	-3.80	-3.81	-3.82	-3.83	-3.84	-3.85	-3.86	-3.87	-3.88
660	-3.79	-3.80	-3.82	-3.83	-3.84	-3.85	-3.86	-3.87	-3.88	-3.89
661	-3.80	-3.81	-3.82	-3.83	-3.84	-3.85	-3.86	-3.87	-3.89	-3.90
662	-3.81	-3.82	-3.83	-3.84	-3.85	-3.86	-3.87	-3.88	-3.89	-3.90
663	-3.81	-3.82	-3.83	-3.84	-3.85	-3.86	-3.88	-3.89	-3.90	-3.91
664	-3.82	-3.83	-3.84	-3.85	-3.86	-3.87	-3.88	-3.89	-3.90	-3.91
665	-3.82	-3.83	-3.84	-3.86	-3.87	-3.88	-3.89	-3.90	-3.91	-3.92
666	-3.83	-3.84	-3.85	-3.86	-3.87	-3.88	-3.89	-3.90	-3.91	-3.93
667	-3.83	-3.85	-3.86	-3.87	-3.88	-3.89	-3.90	-3.91	-3.92	-3.93
668	-3.84	-3.85	-3.86	-3.87	-3.88	-3.89	-3.91	-3.92	-3.93	-3.94
669	-3.85	-3.86	-3.87	-3.88	-3.89	-3.90	-3.91	-3.92	-3.93	-3.94
670	-3.85	-3.86	-3.87	-3.88	-3.90	-3.91	-3.92	-3.93	-3.94	-3.95
671	-3.86	-3.87	-3.88	-3.89	-3.90	-3.91	-3.92	-3.93	-3.94	-3.96
672	-3.86	-3.87	-3.89	-3.90	-3.91	-3.92	-3.93	-3.94	-3.95	-3.96
673	-3.87	-3.88	-3.89	-3.90	-3.91	-3.92	-3.94	-3.95	-3.96	-3.97
674	-3.88	-3.89	-3.90	-3.91	-3.92	-3.93	-3.94	-3.95	-3.96	-3.97
675	-3.88	-3.89	-3.90	-3.91	-3.93	-3.94	-3.95	-3.96	-3.97	-3.98
676	-3.89	-3.90	-3.91	-3.92	-3.93	-3.94	-3.95	-3.96	-3.97	-3.99
677	-3.89	-3.90	-3.91	-3.93	-3.94	-3.95	-3.96	-3.97	-3.98	-3.99
678	-3.90	-3.91	-3.92	-3.93	-3.94	-3.95	-3.96	-3.98	-3.99	-4.00
679	-3.90	-3.92	-3.93	-3.94	-3.95	-3.96	-3.97	-3.98	-3.99	-4.00
680	-3.91	-3.92	-3.93	-3.94	-3.95	-3.97	-3.98	-3.99	-4.00	-4.01

TABLE 4.- COMBINED TEMPERATURE, GRAVITY, AND CALIBRATION CORRECTION FOR BAROMETER NO. 13346

T, DEG C	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	30.0
P, MM										
651	-3.85	-3.86	-3.87	-3.88	-3.89	-3.90	-3.91	-3.92	-3.93	-3.94
652	-3.85	-3.86	-3.87	-3.88	-3.89	-3.91	-3.92	-3.93	-3.94	-3.95
653	-3.86	-3.87	-3.88	-3.89	-3.90	-3.91	-3.92	-3.93	-3.94	-3.95
654	-3.86	-3.88	-3.89	-3.90	-3.91	-3.92	-3.93	-3.94	-3.95	-3.96
655	-3.87	-3.88	-3.89	-3.90	-3.91	-3.92	-3.93	-3.94	-3.96	-3.97
656	-3.88	-3.89	-3.90	-3.91	-3.92	-3.93	-3.94	-3.95	-3.96	-3.97
657	-3.88	-3.89	-3.90	-3.91	-3.92	-3.94	-3.95	-3.96	-3.97	-3.98
658	-3.89	-3.90	-3.91	-3.92	-3.93	-3.94	-3.95	-3.96	-3.97	-3.98
659	-3.89	-3.91	-3.92	-3.93	-3.94	-3.95	-3.96	-3.97	-3.98	-3.99
660	-3.90	-3.91	-3.92	-3.93	-3.94	-3.95	-3.96	-3.98	-3.99	-4.00
661	-3.91	-3.92	-3.93	-3.94	-3.95	-3.96	-3.97	-3.98	-3.99	-4.00
662	-3.91	-3.92	-3.93	-3.94	-3.96	-3.97	-3.98	-3.99	-4.00	-4.01
663	-3.92	-3.93	-3.94	-3.95	-3.96	-3.97	-3.98	-3.99	-4.00	-4.01
664	-3.92	-3.94	-3.95	-3.96	-3.97	-3.98	-3.99	-4.00	-4.01	-4.02
665	-3.93	-3.94	-3.95	-3.96	-3.97	-3.98	-3.99	-4.01	-4.02	-4.03
666	-3.94	-3.95	-3.96	-3.97	-3.98	-3.99	-4.00	-4.01	-4.02	-4.03
667	-3.94	-3.95	-3.96	-3.97	-3.99	-4.00	-4.01	-4.02	-4.03	-4.04
668	-3.95	-3.96	-3.97	-3.98	-3.99	-4.00	-4.01	-4.02	-4.03	-4.05
669	-3.95	-3.97	-3.98	-3.99	-4.00	-4.01	-4.02	-4.03	-4.04	-4.05
670	-3.96	-3.97	-3.98	-3.99	-4.00	-4.01	-4.03	-4.04	-4.05	-4.06
671	-3.97	-3.98	-3.99	-4.00	-4.01	-4.02	-4.03	-4.04	-4.05	-4.06
672	-3.97	-3.98	-3.99	-4.01	-4.02	-4.03	-4.04	-4.05	-4.06	-4.07
673	-3.98	-3.99	-4.00	-4.01	-4.02	-4.03	-4.04	-4.05	-4.07	-4.08
674	-3.98	-4.00	-4.01	-4.02	-4.03	-4.04	-4.05	-4.06	-4.07	-4.08
675	-3.99	-4.00	-4.01	-4.02	-4.03	-4.05	-4.06	-4.07	-4.08	-4.09
676	-4.00	-4.01	-4.02	-4.03	-4.04	-4.05	-4.06	-4.07	-4.08	-4.09
677	-4.00	-4.01	-4.02	-4.04	-4.05	-4.06	-4.07	-4.08	-4.09	-4.10
678	-4.01	-4.02	-4.03	-4.04	-4.05	-4.06	-4.07	-4.09	-4.10	-4.11
679	-4.01	-4.03	-4.04	-4.05	-4.06	-4.07	-4.08	-4.09	-4.10	-4.11
680	-4.02	-4.03	-4.04	-4.05	-4.06	-4.08	-4.09	-4.10	-4.11	-4.12

